DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site

DATE: June 18, 2018	**WEATHER:** Partly Cloudy, High ~85 degrees F

Personnel and Visitors Onsite:
Research vessel Cayuse – CDM Smith: Jason Silvertooth; AECOM: Michaela McCoog; Geosyntec: Erin Dunbar; Gravity Marine: John Schaefer, Jeff Schut

Planned Activity:

- Collect surface sediment samples at stratified random and SMA sample locations. The locations sampled were all previously sampled or attempted previously but are being revisited for resampling that conforms to the updated sampling protocol.

Activity Completed:
A tailgate safety meeting was led by AECOM. Topics discussed during the safety meeting included hot weather, sun protection, hydration, taking rest and bathroom breaks, boat traffic, communication with the boat captain when other boats are in the area, and monitoring for thunderstorms.

Jason Silvertooth performed oversight of surface sediment sampling at stratified random and SMA sample locations from 8:00 to 17:30 on board the Cayuse. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:

- GPS position checks were performed at the beginning and end of the day at the PH-2 control point at the Fred Devine property. GPS coordinates were within 1.20 meters of the PH-2 survey coordinates, meeting the 1-2 m accuracy specification in the FSP.
- Three composite surface sediment samples were collected from stratified random sample locations, and one surface sediment sample was collected from an SMA sample location. Samples collected and a brief description of each sample are provided below. Between sampling locations all sampling equipment was decontaminated using Alconox and deionized/distilled water.

Status of Schedule & Priority Work:

- Sampling will continue this week on the Cayuse with SMA, stratified random, and co-located core sampling locations.
- Sampling on some private property locations will continue to occur at locations with property access agreements.

Issues/Concerns/Resolutions (include work performed that was not planned or anticipated):
Several locations were accessed but samples were not collected, as described below

- SG-B155 – RM 5.5 E: Piles and underwater structures prevented access at all but a small portion that is within the 50 ft radius of the primary sampling location, and both alternates were inaccessible due to submerged pilings/structures. Three attempts were made in the small accessible area, and there was washout in all three samples due to sticks and woody debris.
- SG-B159 – RM 5.6 E: This location was previously sampled at alternate 1 but was targeted for resampling at the primary location due to insufficient documentation of sampling effort before moving to the alternative location. Six grab attempts were made at the primary location but there was washout in each attempt due to wood and logs.
- SG-B161 – RM 5.7 W: This location was previously sampled at alternate 1 but was targeted for resampling at the primary location due to insufficient documentation of sampling effort before moving to the alternative location. A ship was blocking access to all but a small portion within the 50 ft radius, and the decision was made to revisit this sample location at another time.
- SG-B153 – RM 5.5 W: The alternative 1 location was previously sampled because the primary location was not accessible, but only one grab sample was obtained with low recovery so it will be attempted again (per EPA request). Seven grab attempts are made but there is washout in each grab attempt due to rocks or debris in the sampler jaws.

As summarized below, a 2-point composite was collected at SG-B156 and a single grab was sampled at SG-S114 due to sample washout in the remaining grab attempts. For each location, an ‘anomaly’ form was filled out because a 3-point composite sample was not collected.

Samples Collected, Measurements Made, Photographs: (List Locations, Matrix & Sample type):
On the Cayuse, sediment samples were collected at the following sampling locations:

- PDI-SG-B114 – 3-point composite, RM 4.5 E, within 50 ft radius, sand with trace silt
- PDI-SG-B156– 2-point composite, RM 5.7 E, within 50 ft radius, sand with trace silt
- PDI-SG-S114 – 1-point sample, RM 6.4 E, within 50 ft radius, sandy gravel with silt (SMA location)
- PDI-SG-B191 – 3-point composite, RM 6.3 E, within 50 ft radius, silty sand with trace gravel

Note: Sediment descriptions are simplified and AECOM/Geosyntec provided more detailed sediment descriptions in their sampling notes.

Photographs of work were taken throughout the day on board the Cayuse and provided to EPA via email. Additional photos were taken and archived with a description included in the photolog Excel spreadsheet, which are maintained electronically in the ProjectWise project folder.

Borings Completed (Include total footage drilled for each boring):
None

Wastes Generated and How Handled:

- Excess sediment and debris in the power grab sampler and in the sampling bowls was rinsed back into the river per the FSP. No significant sheen was observed.
- Disposable gloves, paper towels, and other general trash was containerized in a trash bag and removed daily for disposal to a municipal waste management dumpster.

Health and Safety Issues, Equipment Needs, Staffing:
None.

Signature: Jason Silvertooth **DATE** June 18, 2018